

## PATENT APPLICATION

Sheet 1 of 5

<b>FORM PTO-1449</b>  <b>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</b>  (Use several sheets if necessary)	ATTY. DOCKET NO. <b>10010538-1</b>	SERIAL NO. <b>09/823,195</b> (Filed Herewith)
	APPLICANT <b>Xiao-An Zhang et al</b>	
	FILING DATE <b>3/29/01</b> (Filed Herewith)	GROUP <b>2825</b>

## REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
<i>CME</i>	1A	6,128,214	10/3/2000	Kuekes et al	365	151
	1B					
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## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
	1L							
	1M							
	1N							
	1O							
	1P							

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

<i>CME</i>	1Q	U.S. Patent Application, Serial No.: 09/280,048 entitled "Chemically Synthesized and Assembled Electronic Devices", filed on March 29, 1999
<i>CME</i>	1R	U.S. Patent Application, Serial No.: 09/280,225 entitled "Molecular Wire Crossbar Interconnects for Signal Routing and Communications", filed on March 29, 1999
<i>CME</i>	1S	U.S. Patent Application, Serial No.: 09/282,045 entitled "Molecular Wire Crossbar Logic", filed on March 29, 1999

EXAMINER

*C. Lueker*

DATE CONSIDERED

*11/5/04*
 11040 U.S. PTO  
 09/023195  
 03/29/01

## PATENT APPLICATION

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FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

10010538-1

SERIAL NO.

09/823,195  
(Filed herewith)

APPLICANT

Xiao-An Zhang et al

FILING DATE

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## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

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						YES	NO
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## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

<i>CME</i>	2Q	U.S. Patent Application, Serial No.: 09/282,049 entitled "Demultiplexer for a Molecular Wire Crossbar Network", filed on March 29, 1999
<i>CME</i>	2R	U.S. Patent Application, Serial No.: 09/280,188 entitled "Molecular Wire Transistors" filed on March 29, 1999
<i>CME</i>	2S	C.P. Collier et al, "Electronically Configurable Molecular-Based Logic Gates", Science, Vol. 285, pp. 391-394 (16 July 1999)

EXAMINER

*C. J. J. J.*

DATE CONSIDERED

11/5/04

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							YES	NO
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		3N						
		3O						
		3P						

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

CME	3Q	C.P. Collier et al, "A [2]Catenane-Based Solid State Electronically Reconfigurable Switch", Science, Vol. 289, pp. 1172-1175 (18 August 1000)
CME	3R	A.M. Morales et al, "A laser ablation method for the synthesis of crystalline semiconductor nanowires", Science, Vol. 279, pp. 208-211 (Jan. 9, 1998)
CME	3S	J.R. Heath et al, "A liquid solution synthesis of single crystal germanium quantum wires", Chemical Physics Letters, Vol. 208, pp. 263-268 (June 11, 1993)

EXAMINER

C. Jurek

DATE CONSIDERED

11/5/04

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	APPLICANT <b>Xiao-An Zhang et al</b>	
	FILING DATE <b>3/29/01</b> ( <del>Filed Herewith</del> )	GROUP <b>2825</b>

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	4M						
	4N						
	4O						
	4P						

**OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)**

<i>CME</i>	4Q	V.P. Menon et al, "Fabrication and Evaluation of Nano-electrode Ensembles", Analytical Chemistry, Vol. 67, pp. 1920-1928 (July 1, 1995)
<i>CME</i>	4R	T. Vossmeier et al, "Combinatorial approaches toward patterning nanocrystals", Journal of Applied Physics, Vol. 84, pp. 3664-3670 (Oct. 1, 1998)
<i>CME</i>	4S	D.V. Leff et al, "Thermodynamic Control of Gold Nanocrystal Size: Experiment and Theory", The Journal of Physical Chemistry, Vol. 99, pp. 7036-7041 (May 4, 1995)

EXAMINER

*C. Juehart*

DATE CONSIDERED

*11/4/04*

<b>FORM PTO-1449</b>  <b>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</b>  (Use several sheets if necessary)	ATTY. DOCKET NO. <b>10010538-1</b>	SERIAL NO. <i>09/823,190</i> (Filed Herewith)
APPLICANT <b>Xiao-An Zhang et al</b>		
FILING DATE <i>3/29/01</i> (Filed Herewith)		GROUP

**REFERENCE DESIGNATION U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
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							YES	NO
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	5M							
	5N							
	5O							
	5P							

**OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)**

<i>CME</i>	5Q	J.D.L. Holloway et al, "Electron-transfer reactions of metallocenes: Influence of metal oxidation state on structure and reactivity", Journal of the American Chemical Society, Vol. 101, pp. 2038-2044 (April 11, 1979)
<i>CME</i>	5R	C.P. Collier et al, "Electronically Configurable Molecular-Based Logic Gates", Science, Vol. 285, pp. 391-394 (16 July 1999)
	5S	

EXAMINER

*C. J. J. J.*

DATE CONSIDERED

*11/5/04*

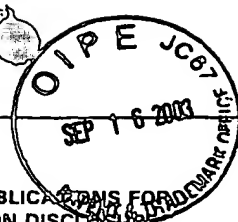
## PATENT APPLICATION

Sheet 1 of 2

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STATEMENT

(Use several sheets if necessary)



ATTY. DOCKET NO.

10010538-1

APPLICATION NO.

09/823,195

CONFIRMATION NO.

1230

APPLICANT

Sean Xiao-An Zhang et al

FILING DATE

Mar 29 2001

GROUP

2825

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
CME	1A	4,180656	25 Dec 1979	Garner	—
CME	1B	6,128,214	3 Oct 2000	Kuekes et al	—
	1C				
	1D				
	1E				
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		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
CME	1L	WO02089229	7 Nov 2002	Hewlett Packard Co.	—	
CME	1M	WO03016992	27 Feb 2003	Hewlett Packard Co.	—	
CME	1N	WO9835271	13 Aug 1998	IBM Corp.	—	
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CME	1Q	Roth et al: "Molecular Rectifiers and Transistors based on PI-conjugated materials "Synthetic Metals, Elsevier Sequoia, Lausanne, Ch vol 94 no. 1, 1998 pages 105-110 XP001004861
CME	1R	Ward M D: "Current Development in Molecular Switches" Chemistry and Industry. Chemistry and Industry Review, Chemical Society Letchworth, GB no. 16, 18 August 1997 pages 640-645 XP00659773
CME	1S	Shimizu: " Molecular Switch and Memory for Organic Electronic Matherials" Sen' I Kobunshi Zaiyo Kenkyujo Kenkyu Hokoku-Bulletin of the Research Institute for Polymers and Textiles, Kogyogijutsuin. Sen' I Kobunshi Zaiyo Kenkyujo, Tsukuba, JP no. 141, 1984 pages 21-40 XP0001145548

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C. J. Swartz

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11/5/04

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SEP 25 2003



PATENT APPLICATION  
Sheet 2 of 2

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09/823,195

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Sean Xiao-An Zhang et al

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2N				
2O				
2P				

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

CME	2Q	Hutchison K A et al: "Chiropticsenses: Molecular Chiroptical Dipole Switches for Optical Data Storage" Proceedings of the SPIE, SPIE, Bellingham, VA, US vol 3937, 2000 pages 64-72 XP009005995
CME	2R	Database CA 'Online Chemical Abstracts Services, Columbus, OH, US; Riesz, E: "Some new benzothiazole derivative sand comparison dyeing with such compounds" retrieved from STN XP-002243303
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*C. Juerke*

DATE CONSIDERED

11/5/04

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